



# Libero-S Smart Inverter

## High Performance Airflow

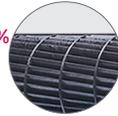
LG's unique high pressure blade fan and outdoor unit's high efficiency big wings, creates high efficiency cooling and heating air solution and 9m long power airflow.

### 1 High Pressure Blade Fan

The irregular surface of the trip wire blade is able to reduce air resistance.



Indoor Unit Air flow rate improved by **15%** than conventional.



### 2 High Efficiency Big Wings

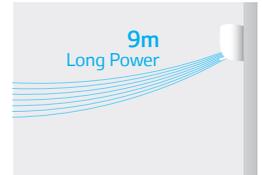
Improved power consumption by reducing the flow resistance.



- ↑6.4%** Airflow rate improved by
- ↓30%** Fan weight reduced by
- ↓24%** Fan energy consumption reduced by

### 3 Powerful Long Airflow

The new larger fan and chassis cools an area up to 9meters away. Cooling response is faster and more powerful.



## Smart Diagnosis

Smart Diagnosis allows you to check setup, installation, troubleshooting and other information conveniently from your smartphone.



### 1 How It Works



### 2 Benefit



- Consumer Mode**
- Check operational status of a product
  - Save energy by monitoring key operation information and power consumption
  - Easy-to-understand error messages
  - Using the Maintenance Guide helps to improve device performance and expand product life



- Service Mode**
- Understanding the product
  - Compare current and past usage data
  - Maintain installation capabilities
  - Reduce installation time by quick confirmation device operational status

## Comfort Air

The comfort vane option conveniently sets the louvers to a preset position that deflects the supply air away from blowing directly onto room occupants.

### 1 Convenient Control

Enjoy utmost comfort in just one click.



Click the button once : the vane goes to the highest position for indirect airflow. (Optimised airflow for cooling)



Click the button twice : the vane goes to the lowest position for indirect airflow. (Optimised airflow for heating)



## Customised Design for Maximum Comfort

LG air conditioner's slim and simple design guarantees easy installation and convenient cleaning.

### 1 Large Magic Display

Neat indoor unit design and comfortable function for checking your energy with the hidden display.



**190% Increase**

### 2 Easy to Open

Removing the dust filter on a conventional air conditioner takes two steps, but a Dual Protection Filter can be removed in one easy step.



### 3 Easy to Clean

The filter is designed for easy handling and quick cleaning, which lengthens its lifespan.



# New Standard Plus Smart Inverter

9K  
P09EN  
12K  
P12EN

18K  
P18EN  
24K  
P24EN



- Active Energy Control
- Energy Display
- 2 Way Swing
- Jet Cool
- Fast Heating
- Dual Protection Filter
- Auto Cleaning
- Comfort Air
- Low Noise 19dB  
\*9k,12k
- Silence Mode 3dB
- Quick & Easy Installation
- Wi-Fi Ready
- Smart Diagnosis



Unit				9K	12K	18K	24K
Model Indoor Unit				P09EN.NSB	P12EN.NSB	P18EN.NS2	P24EN.NS2
Capacity	Cooling	Min/Rated/Max	W	890/2500/3700	890/3500/4040	900/5000/5525	900/6600/7420
	Heating +7°C	Min/Rated/Max	W	890/3200/4100	890/3800/5100	900/5800/6438	900/7500/8640
	Heating -7°C	Rated	W	3000	3600	3800	4850
Power Input	Cooling	Rated	W	670	1080	1587	2275
	Heating +7°C	Rated	W	840	1000	1611	2308
EER			W/W	3.73	3.24	3.15	2.90
S.E.E.R.				6.5	6.4	6.5	6.2
P design C			kW	2.5	3.5	5.0	6.6
COP			W/W	3.81	3.80	3.60	3.25
S.C.O.P.				4.0	4.0	4.0	3.9
P design H			kW	2.4	2.5	3.9	5.0
Energy Label	Cooling					A++	
	Heating			A+	A+	A+	A
Annual Energy Consumption	Cooling		kWh	134	191	269	372
	Heating		kWh	840	875	1365	1794
Sound Pressure	Cooling	S/L/M/H	dBa	19/27/35/41	19/27/35/41	31/34/39/44	31/34/42/47
	Heating	L/M/H	dBa	27/35/41	27/35/41	34/39/44	34/42/47
Sound Power	Cooling	High	dBa	59	59	60	65
Air Flow Rate	Cooling	S/L/M/H	m³/min	3.0 / 4.2 / 7.5 / 10.0	3.0 / 4.2 / 7.5 / 10.0	8.0 / 10.5 / 13.0	8.0 / 10.5 / 13.1
		Max (Power)	m³/min	11.5	12.5	18.0	20.0
	Heating	L/M/H	m³/min	5.6 / 7.2 / 10.0	5.6 / 7.2 / 10.0	11.0 / 13.5 / 16.0	11.0 / 15.0 / 18.5
Dehumidification Rate			l/h	1.1	1.3	1.8	2.5
Running Current	Cooling	Rated/Max	A	3.0 / 6.0	4.7 / 6.0	6.9 / 9.0	10.1 / 14.0
	Heating	Rated/Max	A	3.7 / 7.0	4.5 / 7.0	7.1 / 9.5	10.4 / 14.0
Starting Current	Cooling	Rated	A	3.0	4.7	6.9	10.1
	Heating	Rated	A	3.7	4.5	7.1	10.4
Power Supply			Ø / V / Hz	1 / 220-240 / 50			
Circuit Breaker			A	15	15	20	25
Power Supply Cable			N x mm²	3*1.0	3*1.0	3*1.5	3*2.5
Power & Transmission Cable			N x mm²	4*1.0 (Including Earth)	4*1.0 (Including Earth)	4*1.0 (Including Earth)	4*1.0 (Including Earth)
Dimension			mm	837*302*189	837*302*189	998*330*210	998*330*210
Net Weight			kg	8.5	8.5	11.6	12.5
Fan Motor Output			W	30	30	30	60
Model Outdoor Unit				P09EN.UA3	P12EN.UA3	P18EN.UJ2	P24EN.UJE
Operation Range	Cooling	Min-Max	°CDB	-10-48	-10-48	-15-48	-15-48
	Heating	Min-Max	°CDB	-10-24	-10-24	-10-24	-10-24
Sound Pressure	Cooling	High	dBa	49	49	53	56
	Heating	High	dBa	50	50	55	57
Sound Power	Cooling	High	dBa	65	65	65	70
Air Flow Rate		High	m³/min	27	27	35	50
Piping	Length (Odu/Idu)	Min	m	3	3	3	3
		Max	m	15	15	20	30
	Elevation (Odu/Idu)	Max	m	7	7	10	15
Piping Connection	Liquid	OD(Outside)	mm	6.35	6.35	6.35	6.35
		inch		(1/4)	(1/4)	(1/4)	(1/4)
	Gas	OD(Outside)	mm	9.52	9.52	12.7	15.88
		inch		(3/8)	(3/8)	(1/2)	(5/8)
	Drain	OD(Outside)	mm	21.5	21.5	21.5	21.5
		inch		0.85	0.85	0.85	0.85
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge at 7.5m		g	950	950	1200	1350
	Additional charge		g/m	20	20	20	30
Fan Motor Output			W	43	43	43	85
Compressor Type				1P Rotary	1P Rotary	Twin Rotary	Twin Rotary
Net Weight			kg	29		36.7	46
Dimension			mm	717*483*230		770*545*288	870*655*320

\* S : Sleep / L : Low / M : Medium / H : High

\*\* Specification, design and feature are subject to change without prior notice.

\*\*\* This product contains Fluorinated greenhouse gases (R410A).